



ENHANCING MOBILITY NETWORKS IN THE WORLD CLASS AFRICAN CITY

The Johannesburg Roads Agency manages a total of 2124 traffic signs across the City of Johannesburg.

In an effort to improve mobility to economic hubs, business sites, suburbs and ensuring that the traffic is moving smoothly, the JRA has identified 200 critical intersections on major and busiest routes across the City.

The JRA has employed the innovative technology and beefed up its capacity to ensure that mobility at these critical intersections is optimal. With our focus on improving turnaround times and uptime functioning of traffic signals, the JRA has assigned 7 technical teams spread across the city covering Soweto, Joburg CBD, Sandton, Orange Farm, Alexandra, Rooderpoort, Midrand and Northcliff Randburg, to ensure that that traffic signals are up and running in this areas.

The JRA has further invested in technologies and interventions to assist with improved monitoring of traffic signals as well as management of congestion on our roads.

These include:

- o The Remote Monitoring Systems(RMS), CCTV and detectors to assist with traffic flow
- o Five pilot solar powered traffic signals which are running independently from any electricity source have been installed
- o The JRA is reducing the City's carbon footprint by replacing old traffic light globes with new LED lights which consumes little electricity and are brighter for better visibility
- o JRA is maintaining about 98% availability at any given day of the signals

With the current developments and road construction in the city, some traffic signals are switched off for the duration of the construction, which temporarily cause inconveniences. To deal with the challenge, the JRA is innovatively installing about 70 static UPS (Uninterruptible Power Supplies) and additional 10 mobile ones.

Some of the intersections or areas where the solar power pilot project has been installed include:

- o Sandton – Rivonia/Grayston, Grayston/M1 North & Grayston/M1 South
- o Braamfontein – De Korte/Rissik Street (Civic Theatre)
- o Parktown - Sherbourne/Jan Smut (UPS site)



a world class African city



City of Johannesburg

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